CANADIAN JOURNAL OF PLANT SCIENCE
AUTHOR INDEX, VOLUME 59, 1979

AALDERS, LEWIS, E. *See* Hall, Ivan V., 261.
AALDERS, LEWIS E. and HALL, IVAN V. Germination of lowbush blueberry seeds as affected by sizing, planting cover, storage and pelleting, 527.
AALDERS, LEWIS E., HALL, IVAN V. and BRYDON, AVARD C. A comparison of fruit yields of lowbush blueberry clonal lines and related seedling progenies, 875.
ACIKGOZ, ESVET and RUMBAUGH, M. D. Variation in seed and seedling traits of common vetch (*Vicia sativa* L.), 511.
AIKEN, S. G., NEWROTH, P. R. and WILE, I. The biology of Canadian weeds. 34. *Myriophyllum spicatum* L., 201.
AJANI, A. and LONNQUIST, J. H. Selection for biological resistance to corn rootworm (*Diabrotica* spp.), 333.
ALEX, J. F., McLAREN, R. D. and HAMILL, A. S. Occurrence and winter survival of Johnson grass (*Sorghum halepense*) in Ontario, 1173.
ALI-KHAN, S. T. and ZIMMER, R. C. Screening of field pea breeding lines for pea seed-borne mosaic virus, 171.
ALLEN, H. T. and KAUFMANN, M. L. Athabasca oat, 245.
ALLEN, WAYNE R. and DIRKS, V. A. The use of rapeseed oil to reduce premature defoliation in sweet cherry sprayed with Bordeaux mixture for control of bacterial canker, 487.
ANTOUN, H., BORDELEAU, L. M. and LACHANCE, R. A. Rendement de la luzerne (cultivar Saranac) inoculée avec une souche très efficace de *Rhizobium meliloti* en présence d'autres espèces de *Rhizobium*, 521.
ARMITAGE, A. M. and TSUJITA, M. J. Supplemental lighting and nitrogen nutrition effects on yield and quality of Forever Yours roses, 343.
AYTENFISU, ATTINAW. *See* Briggs, K. G., 1139.

BAKER, R. J. *See* Kosmolak, F. G., 21.
BAKER, R. J. *See* Martens, J. W., 55.
BAKER, R. J. *See* O'Brien, L., 1013.
BAL, ARYA K. *See* Warr, Harold J., 69.
BANDEEN, J. D. *See* Warwick, S. I., 269.
BANTING, J. D. *See* Hsiao, A. I., 1047.
BANTING, J. D. Germination, emergence and persistence of foxtail barley, 35.
BANTING, J. D. and GEBHARDT, J. P. Germination, afterripening, emergence, persistence and control of Persian darnel, 1037.
BARNETT, G. *See* Comeau, A., 43.
BERKENKAMP, B. and MEERES, J. Resistance of alfalfa cultivars to yellow leaf blotch, 873.
BERNIER, C. C. *See* Kharbanda, P. D., 661.
BEVERSDORF, W. D. Influence of ploidy level on several plant characteristics in soybeans, 945.
BHATTY, R. S. *See* Slinkard, A. E., 503.
BITTMAN, S. and STEPPLER, H. A. A gasometric apparatus for monitoring evaporation rate from plant tissues during transpiration and drying, 545.
BOLTON, A. T. and CORDUKES, W. E. Differences in susceptibility to leaf spot caused by *Bipolaris sorokiniana* among strains of *Poa annua*, 1113
BOLTON, J. L. *See* Damirgi, Salih M., 1153.
BORDELEAU, L. M. *See* Antoun, H., 521.
BOWREN, K. E. *See* Dodds, M. E., 321.
BRACH, E. J. *See* Phan, C. T., 1067.
BRIGGS, K. G. *See* Somerville, S. C., 505, 863.
BRIGGS, K. G. and AYTENFISU, ATTINAW. The effects of seeding rate, seeding date and location on grain yield, maturity, protein percentage and protein yield of some spring wheats in Central Alberta, 1139.

BRIGGS, K. G. and FARIS, D. G. Comparison of multiple- and single-row plots and spaced plants for testing yield and other variables in barley, 493.
BRINK, V. C. *See* Huxley, D. M., 713.
BRINKMAN, M. A. Performance of oat plants grown from primary and secondary kernels, 931.
BRINKMAN, M. A. and LUK, T. M. Relationship of spike nodding angle and kernel brightness under simulated rainfall in barley, 481.
BROERSMA, K. and van RYSWYK, A. L. Magnesium deficiencies observed in forage corn varieties, 541.
BRYDON, AVARD C. *See* Aalders, Lewis E., 875.
BUBAR, J. S. *See* Nass, H. G., 869, 871.
BURTON, J. H. *See* Muztar, Jabbar A., 1093.
BUSHUK, W. *See* Zillman, R., 281, 287.
BUZZELL, R. I. *See* Vaartaja, O., 307.
CAMPBELL, C. A. and DAVIDSON, H. R. Effects of temperature, nitrogen fertilization and moisture stress on growth, assimilate distribution and moisture use by Manitou spring wheat, 603.
CAMPBELL, C. A. and DAVIDSON, H. R. Effect of temperature, nitrogen fertilization and moisture stress on yield, yield components, protein content and moisture use efficiency of Manitou spring wheat, 963.
CAREFOOT, J. M. *See* Pittman, U. J., 1007.
CARON, M., LACHANCE, R. O. et PELLETIER, G. Pathogénicité comparée d'*Erwinia carotovora* var. *atroseptica* et var. *carotovora* par inoculation de cultivars de pomme de terre, 411.
CAVERS, PAUL B. *See* Turkington, Roy, 99.
CAVERS, PAUL B., HEAGY, MURIEL I. and KOKRON, ROBERT F. The biology of Canadian weeds. 35. *Alliaria petiolata* (M. Bieb.) Cavara and Grande, 217.
CERDONIO, MASSIMO, MORANTE-MAZZONCINI, SILVIA and VINCENTINI-MISSONI, MATILDE. Poplar growth response of *Pisum arvense* L. seeds to weak magnetic fields, 883.
CESCAS, M. P. *See* Lamarre, M., 453.
CHIPMAN, E. W. and THORPE, E. Effect of maturity and frost on the leaf cover of storage cabbage, 429.
CHONG, CALVIN, DESJARDINS, R. L. and LIN, C. S. Changes in water and carbohydrate status of three nursery species in containers during overwinter storage in three environments, 747.
CHOW, P. N. P. *See* Moyer, J. R., 351.
CHRISTIAN, J. K. *See* Doss, R. P., 185.
CHRISTIE, B. R. and KEOGHAN, J. M. The use of simulated swards in breeding alfalfa (*Medicago sativa* L.), 701.
CLARK, K. W. *See* Dean, J. R., 27.
CLARKE, JOHN M. Intra-plant variation in number of seeds per pod and seed weight in *Brassica napus* 'Tower', 959.
CLOUGH, K. S. *See* Johnston, H. W., 917.
COMEAU, A. and BARNETT, G. Effect of barley yellow dwarf virus on N, P, K fertilizer efficiency and on the harvest index of oats, 43.
COMEAU, J. E. *See* Rioux, R., 367.
COOK, F. D. *See* Damirgi, Salih M., 1153.
COOK, F. I. *See* Kerr, E. A., 895.
CORDUKES, W. E. *See* Bolton, A. T., 1113.
CRAIG, D. L. Minas Maid rhododendron, 1165.
CRAKER, L. E. *See* Gardiner, T. R., 191.
CRANSTON, R. *See* Harris, P., 375.
CRAWFORD, L. G. *See* Vaartaja, O., 307.
CROWLEY, JACINTA and PRENDEVILLE, G. N. Effect of dichlofop methyl on leaf-cell membrane permeability in wild oat, barley and wheat, 275.

DAMIRGİ, SALIH M., BOLTON, J. L., WEBSTER, G. R. and COOK, F. D. Resistance and susceptibility of selected alfalfa lines to inoculation with a *Phytophthora megasperm* isolate, 1153.

DARWENT, A. L. and ELLIOTT, C. R. Effect of grass species and row spacing on dandelion establishment and growth, 1031.
DAVIDSON, D. Coleorhiza, root and coleoptile emergence and growth: Effects of different water volumes, 61.
DAVIDSON, H. R. *See* Campbell, C. A., 603, 963.
DAYNARD, T. B. *See* Edmeades, G. O., 561, 577, 585.
DEAN, J. R. and CLARK, K. W. Inoculum specificity in fababeans and peas, 27
DE LA ROCHE, IAN A. *See* Dubetz, S., 299.
DESCHENES, J. M. and DUBUC, J. P. Effets de différents taux de fumier sur les populations de mauvaises herbes, la verse et le rendement en grains des céréales, 981.
DESCHENES, J. M. et RIOUX, R. Effet de applications répétées d'herbicides et des dates de préparation du sol sur les changements de populations des mauvaises herbes, 357.
DESJARDINS, R. L. *See* Chong, Calvin, 747.
DEW, D. A. *See* Dodds, M. E., 321.
DIEPENBROCK, W. and GEISLER, G. Compositional changes in developing pods and seeds of oilseed rape (*Brassica napus* L.) as affected by pod position on the plant, 819.
DIRKS, V. A. *See* White, F. H., 111.
DIRKS, V. A. *See* Allen, Wayne R., 487.
DODDS, M. E., BOWREN, K. E., DEW, D. A. and FARIS, D. G. The effect of windrowing hard spring wheat at different stages of maturity at four locations in western Canada, 321.
DOSS, R. P., CHRISTIAN, J. K. and LANGAGER, J. M. Calcium deficiency and occurrence of topple disorder in bulbous *Iris*, 185.
DOWNEY, R. K. *See* Vera, C. L., 635.
DRYDEN, R. D. *See* Moyer, J. R., 351, 383.
DUBETZ, S., GARDINER, E. E., FLYNN, D. and DE LA ROCHE, IAN A. Effect of nitrogen fertilizer on nitrogen fractions and amino acid composition of spring wheat, 299.
DUBETZ, S. and OOSTERVELD, M. Sixty-six-year trends in irrigated crop yields — barley, wheat and oats, 685.
DUBUC, J. P. *See* Deschênes, J. M., 981.
DUECK, J. and STONE, J. R. Evaluation of fungicides for control of *Albugo candida* in turnip rape, 423.
DYCK, P. L. Identification of the gene for adult-plant leaf rust resistance in Thatcher, 499.
DYCK, P. L. and SAMBORSKI, D. J. Adult-plant leaf rust resistance in PI 250413, an introduction of common wheat, 329.

EATON, G. W. *See* Huxley, D. M., 713.
EDMEADES, G. O. and DAYNARD, T. B. The development of plant-to-plant variability in maize at different planting densities, 561.
EDMEADES, G. O. and DAYNARD, T. B. The relationship between final yield and photosynthesis at flowering in individual maize plants, 585.
EDMEADES, G. O., FAIREY, N. A. and DAYNARD, T. B. Influence of plant density on the distribution of ^{14}C-labelled assimilate in maize at flowering, 577.
EGGENS, J. L. The response of some Kentucky bluegrass cultivars to competitive stress from annual bluegrass, 1123.
ELLIOTT, C. R. *See* Darwent, A. L., 1031.
EMINO, E. R. *See* Lord, W. G., 137.
ESTEY, R. H. *See* Hogger, C. H., 271.
ESTEY, R. H. *See* Tzean, S. S., 785.
EVANS, L. E. *See* Scoles, G. J., 163, 627.
EVANS, L. E. *See* O'Brien, L., 1013.
FAIREY, N. A. *See* Edmeades, G. O., 577.
FARIS, D. G. *See* Dodds, M. E., 321.
FARIS, D. G. *See* Briggs, K. G., 493.

FINLAYSON, D. G. Combined effects of soil-incorporated and foliar-applied insecticides in bed-system production of brassica crops, 399.
FLEMING, A. A. *See* Rao, Arelli P., 241.
FLYNN, D. *See* Dubetz, S., 299.
FORSYTH, F. R. *See* Webster, D. H., 717.
FRANKLIN, E. W. *See* Smith, R. B., 725.
FRASER, B. M. *See* Wallace, H. A. H., 991.
FREYMAN, S. and HAMMAN, W. M. Effect of phenoxy herbicides on cold hardiness of winter wheat, 237.
FREYMAN, S. and KALDY, M. S. Relationship of soil fertility to cold hardiness of winter wheat crowns, 853.
FREYMAN, S., KEMP, G. A. and WILSON, D. B. Growth of bean accessions at various temperatures, 81.
FRIESEN, G. H. Protection of snapbeans from substituted urea injury by prior treatment with dinitroaniline herbicides, 535.

GARDINER, E. E. *See* Dubetz, S., 299.
GARDINER, T. R., VIETOR, D. M. and CRAKER, L. E. Growth habit and row width effects on leaf area development and light interception of field beans, 191.
GATES, L. F. *See* Mortimore, C. G., 147.
GAYED, S. K. The effect of cross-grafting between immune, tolerant and susceptible *Nicotiana tabacum* cultivars on infection with *Thielaviopsis* root rot, 1181.
GEBHARDT, J. P. *See* Banting, J. D., 1037.
GEBRE-MARIAM, H. and LARTER, E. N. Effect of plant density on yield, yield components and quality in triticale and Glenlea wheat, 679.
GEISLER, G. *See* Deipenbrock, W., 819.
GENEREUX, H. *See* Rioux, R., 367.
GERVAIS, P. *See* Guertin, S. P., 839.
GERVAIS, PAUL et ST-PIERRE, J. C. Influence du stade de croissance à la première récolte sur le rendement, la composition chimique et les réserves nutritives de la fléole des prés, 177.
GILBERTSON, K. M. and HOCKETT, E. A. The effect of hail damage on barley, 1147.
GRANT, E. A. *See* Nass, H. G., 869, 871.
GREENE, D. W. *See* Lord, W. G., 137.
GROGAN, C. O. *See* Muchena, S. C., 143.
GUBBELS, G. H. Yield, seed weight and protein content of field peas after soil and foliar treatments of simazine at sublethal levels, 253.
GUBBELS, G. H. Yield and weight per seed in buckwheat after foliar applications of growth regulators and antitranspirants, 857.
GUERTIN, S. P., ST-PIERRE, J. C. et GERVAIS, P. Influence de la fertilization azotée sur le rendement, la valeur nutritive et la teneur en diverses fractions azotées de trois cultivars de la fléole des prés, 839.

HALL, IVAN V. *See* Aalders, Lewis, E., 527, 875.
HALL, I. V. *See* Jensen, K. I. N., 769.
HALL, IVAN V. and AALDERS, LEWIS, E. Response of lowbush blueberry seedlings to various dates of digging for storage, 261.
HAMILL, A. S. *See* Alex, J. F., 1173.
HAMMAN, W. M. *See* Freyman, S., 237.
HAMMAN, W. M. Field confirmation of an index for predicting yield loss of wheat and barley due to wild oat competition, 243.
HANNA, M. R. *See* Kaldy, M. W., 707.
HARNEY, PATRICIA M. and KNAP, ALYSON. A technique for the in vitro propagation of African violets using petioles, 263.
HARRIS, P. and CRANSTON, R. An economic evaluation of control methods for diffuse and spotted knapweed in Western Canada, 375.

HEAGY, MURIEL I. *See* Cavers, Paul B., 217.
HEINRICHS, D. H., LAWRENCE, T. and McELGUNN, J. D. Rangelander alfalfa, 491.
HINCKLEY, T. M. *See* Pill, W. G., 391.
HOCKETT, E. A. *See* McGuire, Charles F., 831.
HOCKETT, E. A. *See* Gilbertson, K. M., 1147.
HODGES, TOM, KANEMASU, E. T. and TEARE, I. D. Modeling dry matter accumulation and yield of grain sorghum, 803.
HOFSTRA, G. *See* Toivonen, P. M. A., 475.
HOGGER, C. H., JOHNSON, A. W. and ESTEY, R. H. Failure of *Meloidogyne incognita* to overwinter in Quebec, 271.
HOLT, N. W. and SOSULSKI, F. W. Amino acid composition and protein quality of field peas, 653.
HOPE, H. J. *See* Willemot, C., 249.
HOWE, J. A. G. *See* Lindquist, C. H., 1159.
HSIAO, A. I., MACGREGOR, M. E. and BANTING, J. D. The use of sodium hypochlorite in testing the seed viability of wild oats, 1047.
HUME, D. J. *See* Semu, Ernest, 1129.
HUMMEL, RITA L., PELLETT, HAROLD and PARSONS, LAWRENCE. Variability associated with leaf water potential in red-osier dogwood in field and growth chamber environments, 847.
HUXLEY, D. M., BRINK, V. C. and EATON, G. W. Seed yield components in white clover, 713.

INGRATTA, R. G., STEPHENSON, G. R. and SWITZER, C. M. Selective control of annual bluegrass in Kentucky bluegrass turf with linuron, 469.
ISMAIL, AMR A. *See* Yarborough, David E., 737.
IVANY, J. A. Response of four potato cultivars to metrabuzin time and rate of application, 417.

JASMIN, J. J. *See* Phan, C. T., 1067.
JENKINSON, R. C. *See* Smid, A. E., 939.
JENSEN, K. I. N. and HALL, I. V. The biology of Canadian weeds. 36. *Rubus hispidus* L., 769.
JERMYN, W. A., MACKENZIE, S. L. and SLINKARD, A. E. Methods of reporting methionine content in peas, 231.
JOHNSON, A. GAIL. *See* Lumis, G. P., 1161.
JOHNSON, A. W. *See* Hogger, C. H., 271.
JOHNSON, GAIL. *See* Tsujita, M. J., 757.
JOHNSTON, A. *See* Moyer, J. R., 1155.
JOHNSTON, H. W., MACLEOD, J. A. and CLOUGH, K. S. Effects of Cycocel (CCC) and fungicide sprays on spring wheat grown at three nitrogen levels, 917.

KALDY, M. S. *See* Freyman, S., 853.
KALDY, M. S., HANNA, M. R. and SMOLIAK, S. Influence of drying methods on protein content and amino acid composition of three forage legumes, 707.
KANEMASU, E. T. *See* Sumayao, C. R., 153.
KANEMASU, E. T. *See* Hodges, Tom, 803.
KAUFMANN, M. L. *See* Allen, H. T., 245.
KEMP, G. A. *See* Freyman, S., 81.
KEMP, W. G. *See* Ormrod, D. P., 1077.
KEOGHAN, J. M. *See* Christie, B. R., 701.
KERR, E. A. More high quality yellow sweet corn inbreds released from Simcoe, Ontario, 887.
KERR, E. A. Goldenvee sweet corn, 891.
KERR, E. A. Tablevee sweet corn, 893.
KERR, E. A. and COOK, F. I. Crimsonvee tomato, 895.
KHARBANDA, P. D. and BERNIER, C. C. Effectiveness of seed and foliar application of fungicides to control ascochyta blight of fababeans, 661.
KHOSH-KHUI, M., ROUHANI, I. and SHAYBANY, B. Response of Jerusalem cherry to growth regulators, 75.

KILCHER, M. R. and LAWRENCE, T. Spring and summer pastures for southwestern Saskatchewan, 339.
KILLICK, R. G. *See* Looney, N. E., 741.
KLINCK, H. R. Laurent oats, 233.
KLISIEWICZ, J. M. Relation of infestation with sunflower moth *Homoeosoma electellum* larvae to the incidence of *Rhizopus* rot in sunflower seed heads, 797.
KNAP, ALYSON. *See* Harney, Patricia M., 263.
KNOWLES, R. P. Comparison of cultivar hybrids and blends with pure cultivars in crested wheatgrass, 1019.
KOKRAN, ROBERT F. *See* Cavers, Paul B., 217.
KONDRA, Z. P. Altex summer rape, 247.
KOSMOLAK, F. G. Gliadin composition of bread-wheat cultivars BW 20 and Sinton, 1001.
KOSMOLAK, F. G. and BAKER, R. J. Early generation screening for baking potential, 21.
KUNELIUS, H. T. Effects of harvest schedules and nitrogen fertilization on yields, quality, and ground cover of bromegrass, 257.
KUZINA, F. D. *See* Tkachuk, Russell, 15.

LACHANCE, R. A. *See* Antoun, H., 521.
LACHANCE, R. O. *See* Caron, M., 411.
LALIBERTE, G. E. *See* Wallace, H. A. H., 991.
LANE, DAVID, W. In vitro propagation of *Spirea bumalda* and *Prunus cistena* from shoot apices, 1025.
LANGAGER, J. M. *See* Doss, R. P., 185.
LAMARRE, M. Les effets du *p*H et des engrais sur la production du tabac à cigarette, 131.
LAMARRE, MICHEL. L'influence du stade d'écimage et de la distance de plantation sur les caracteristiques agronomiques et chimiques du tabac à cigarette, 1109.
LAMARRE, M. et CESCAS, M. P. Etablissement de fonctions de production N-P-K pour le tabac à cigarette au Québec, 453.
LAMBETH, V. N. *See* Pill, W. G., 391.
LANGILLE, J. E. *See* Nass, H. G., 869, 871.
LARTER, E. N. *See* Gebre-Mariam, H., 679.
LARTER, E. N. *See* Wolfe, R. I., 861.
LAU, O. L. *See* Meheriuk, M., 525.
LAWRENCE, T. *See* Kilcher, M. R., 339.
LAWRENCE, T. *See* Heinrichs, D. H., 491.
LAWRENCE, T. Genetic control of variation in a selected population of Altai wild ryegrass (*Elymus angustus*), 7.
LAWRENCE, T. Swift, Russian wild ryegrass, 515.
LAWRENCE, T. and WARDER, F. G. Evaluation of twenty grass populations as irrigated hay crops for southwestern Saskatchewan, 691.
LAYNE, R. E. C. *See* Reid, W. S., 903.
LEDINGHAM, R. J. *See* Tinline, R. D., 313.
LIDSTER, P. D. *See* Porritt, S. W., 551.
LIN, C. S. *See* Chong, Calvin, 747.
LIN, C. S., POUSHINSKY, G. and MAUER, M. An examination of five sampling methods under random and clustered disease distributions using simulation, 121.
LINDQUIST, C. H. and HOWE, J. A. G. Thomson elm, 1159.
LONNQUIST, J. H. *See* Ajani, A., 333.
LOONEY, N. E. and KILLICK, R. G. Apricot blossom thinning with dinitro-ortho-butylphenol, 741.
LORD, W. G., GREENE, D. W. and EMINO, E. R. Absorption of silver nitrate and lead nitrate into leaves of McIntosh apple, 137.
LOUGHEED, E. D. *See* Smith, R. B., 725.
LOWE, R. H. *See* Sheen, S. J., 1099.

LUK, T. M. *See* Brinkman, M. A., 481.
LUMIS, G. P. and JOHNSON, A. GAIL. Dikegulac-sodium reduces shoot elongation of Fairview juniper, 1161.

MACGREGOR, M. E. *See* Hsiao, A. I., 1047.
MACHADO, V. SOUZA. *See* Warwick, S. I., 269.
MACKENZIE, D. N. *See* Suzuki, Michio, 549.
MACKENZIE, S. L. *See* Jermyn, W. A., 231.
MACKINNON, J. A. Energy allocation during growth of six maize hybrids in Nova Scotia, 667.
MACLEOD, J. A. *See* Johnston, H. W., 917.
MARRIAGE, P. B. *See* Warwick, S. I., 269.
MARTENS, J. W., BAKER, R. J., McKENZIE, R. I. H. and RAJHATHY, T. Oil and protein content of *Avena* species collected in North Africa, East Africa and the Middle East, 55.
MAUER, M. *See* Lin, C. S., 121.
McELGUNN, J. D. *See* Heinrichs, D. H., 491.
McGUIRE, CHARLES F., HOCKETT, E. A. and WESENBERG, D. M. Response of agronomic and barley quality traits to nitrogen fertilizer, 831.
McKENZIE, R. I. H. *See* Martens, J. W., 55.
McKENZIE, R. I. H. *See* Sinha, R. N., 911, 949.
McLAREN, R. D. *See* Alex, J. F., 1173.
McMILLAN, I. *See* Smith, R. B., 725.
MEERES, J. *See* Berkenkamp, B., 873.
MEHERIUK, M. The effect of harvest date on the response of Golden Delicious apples to CO_2 treatment, 531.
MEHERIUK, M. and LAU, O. L. The relationship of mineral content to quality in Golden Delicious apples, 525.
MILLS, J. T. *See* Sinha, R. N., 949.
MILLS, J. T. and WALLACE, H. A. H. Microflora and condition of cereal seeds after a wet harvest, 645.
MORANTE-MAZZONCINI, SILVIA. *See* Cerdonio, Massimo, 883.
MORTIMORE, C. G. and GATES, L. F. A genetically-controlled necrotic spotting of corn leaves, 147.
MOYER, J. R. Soil organic matter, moisture, and temperature: Effect on wild oats control with trifluralin, 763.
MOYER, J. R. and DRYDEN, R. D. Wild oats, green foxtail, and broad-leaved weeds: Control and effect on corn yield at Brandon, Manitoba, 383.
MOYER, J. R., DRYDEN, R. D. and CHOW, P. N. P. Effect of barban and flamprop methyl with solution nitrogen on wheat, wild oats and green foxtail, 351.
MOYER, J. R., SMOLIAK, S. and JOHNSTON, A. Tolerance of seedling cicer milkvetch to herbicides, 1155.
MUCHENA, S. C., GROGAN, C. O. and VIOLIC, A. D. The effect of recurrent selection for reduction of plant and ear height on internode pattern in two tropical maize (*Zea mays* L.) populations, 143.
MUIR, W. E. *See* Wallace, H. A. H., 991.
MURR, D. P. *See* Tsujita, M. J., 757.
MURR, D. P., VENKATARAYAPPA, T. and TSUJITA, M. J. Counteraction of bent-neck of cut roses with cobalt nitrate, 1169.
MUZTAR, JABBAR A., SLINGER, S. J. and BURTON, J. H. Chemical composition of aquatic macrophytes. IV. Carotenoids, soluble sugars and starch in relation to their pigmenting, and ensiling potential, 1093.

NASS, H. G., GRANT, E. A., SMELTZER, G. G., LANGILLE, J. E. and BUBAR, J. S. Vernon spring wheat, 869.
NASS, H. G., STERLING, J. D. E., GRANT, E. A., SMELTZER, G. G., LANGILLE, J. E. and

BUBAR, J. S. Dundas spring wheat, 871.
NASSAR, Nagib, M. A. Three Brazilian Manihot species with tolerance to stress conditions, 553.
NEWROTH, P. R. *See* Aiken, S. G., 201.
NICHOLLS, C. F. *See* Reid, W. S., 903.

O'BRIEN, L., BAKER, R. J. and EVANS, L. E. Comparison of hill and row plots for F_3 yield testing, 1013.
OLTHOF, Th. H. A.. The use of beans and Kentucky bluegrass for rearing *Pratylenchus neglectus*, *Paratylenchus projectus* and *Helicotylenchus digonicus*, 897.
OLTHOF, Th. H. A. Effects of *Pratylenchus penetrans* and *Meloidogyne hapla* on potential crops for the tobacco-growing areas of southwestern Ontario, 1117.
OOSTERVELD, M. *See* Dubetz, S., 685.
ORMROD, D. P. *See* Pittman, U. J., 1007.
ORMROD, D. P. and KEMP, W. G. Ozone response of tomato plants infected with cucumber mosaic virus and/or tobacco mosaic virus, 1077.
O'SULLIVAN, JOHN. Response of peppers to irrigation and nitrogen, 1085.

PANDEYA, R. S. *See* White, F. H., 111.
PARSONS, LAWRENCE. *See* Hummel, Rita L., 847.
PELLET, HAROLD. *See* Hummel, Rita L., 847.
PELLETIER, G. *See* Caron, M., 411.
PELLETIER, L. *See* Willemot, C., 639.
PETRIE, G. ALLAN. Prevalence of a highly virulent strain of *Leptosphaeria maculans* (blackleg) in seed samples of rape and turnip rape produced in Western Canada in 1976 and 1977, 899.
PHAN, C. T., BRACH, E. J. and JASMIN, J. J. Studies on the detection of lettuce maturity: Anatomical observations and reflectance measurements in the visible range (350–650 nm), 1067.
PILL, W. G., LAMBETH, V. N. and HINCKLEY, T. M. Effects of Cycocel and nitrogen form on tomato water relations, ion composition, and yield, 391.
PITBLADO, R. E. *See* Vaartaja, O., 307.
PITTMAN, U. J., CAREFOOT, J. M. and ORMROD, D. P. Effect of magnetic seed treatment on amylolytic activity of quiescent and germinating barley and wheat seeds, 1007.
PORRITT, S. W. and LIDSTER, P. D. Ammonia detection in controlled atmosphere storage, 551.
POTTER, J. W. *See* Townshend, J. L., 519.
POUSHINSKY, G. *See* Lin, C. S., 121.
PRENDEVILLE, G. N. *See* Crowley, Jacinta, 275.

QURESHI, F. A. and VANDEN BORN, W. H. Split applications and tank mix combinations of diclofop-methyl and MCPA for weed control in barley, 87.
QURESHI, F. A. and VANDEN BORN, W. H. Spray droplet distribution and herbicide uptake in sequential applications of diclofop-methyl and MCPA for weed control in barley, 93.

RAJHATHY, T. *See* Martens, J. W., 55.
RAO, ARELLI P. and FLEMING, A. A. Cytoplasmic-genotypic influences on seed viability in a maize inbred, 241.
REID, W. S., NICHOLLS, C. F. and LAYNE, R. E. C. A mechanical device for cracking prunus pits, 903.
RICHARDSON, STEVEN, G. Factors influencing the development of primary dormancy in wild oat seeds, 777.
RIOUX, R. *See* Deschênes, J. M., 357.
RIOUX, R., COMEAU, J. E. and GENEREUX, H. Effect of cultural practices and herbicides on weed population and competition in potatoes, 367.
ROBINSON, H. G. *See* Sampson, D. R., 975.
RONALD, W. G. Jacan Japanese elm, 267.
ROUHANI, I. *See* Khosh-Khui, M., 75.

RUMBAUGH, M. D. *See* Acikgoz, Esvet, 511.

SAMBORSKI, D. J. *See* Dyck, P. L., 329.
SAMPSON, D. R. and ROBINSON, H. G. Combining ability for male fertility and yield in hybrid winter wheat, 975.
SAVORY, DIANE R. *See* Warr, Harold J., 69.
SCOLES, G. J. and EVANS, L. E. The transfer of a cytoplasmic male-sterility system to spring rye, 163.
SCOLES, G. J. and EVANS, L. E. The effect of temperature on pollen fertility and anther dehiscence of cytoplasmic male-sterile rye, 627.
SEMU, ERNEST and HUME, D. J. Effects of inoculation and fertilizer N levels on N_2 fixation and yields of soybeans in Ontario, 1129.
SHARMA, BINA DEVI. *See* Varshney, S. P., 539.
SHAYBANY, B. *See* Khosh-Khui, M., 75.
SHEEN, S. J. and LOWE, R. H. Proteins and related nitrogenous compounds in virus-infected tobacco plants, 1099.
SHOLBERG, P. L. *See* Wallace, H. A. H., 991.
SINGH, S. D. and YUSUF, M. Effect of water, nitrogen and row spacing on yield and oil content of brown sarson, 437.
SINHA, R. N. *See* Wallace, H. A. H., 991.
SINHA, R. N., WALLACE, H. A. H., MILLS, J. T. and McKENZIE, R. I. H. Storability of farm-stored hulless oats in Manitoba, 949.
SINHA, R. N., WHITE, N. D. G., WALLACE, H. A. H. and McKENZIE, R. I. H. Effect of moisture content on viability and infestation of hulless Terra oats in storage, 911.
SKOROPAD, W. P. *See* Tewari, J. P., 1.
SLINGER, S. J. *See* Muztar, Jabbar A., 1093.
SLINKARD, A. E. *See* Jermyn, W. A., 231.
SLINKARD, A. E. and BHATTY, R. S. Laird lentil, 503.
SMELTZER, G. G. *See* Nass, H. G., 869, 871.
SMID, A. E. and JENKINSON, R. C. Effect of rate and date of seeding on yield and yield components of two winter wheat cultivars grown in Ontario, 939.
SMITH, R. B., LOUGHEED, E. C., FRANKLIN, E. W. and McMILLAN, I. The starch iodine test for determining stage of maturation in apples, 725.
SMOLIAK, S. *See* Kaldy, M. S., 707.
SMOLIAK, S. *See* Moyer, J. R., 1155.
SOMERVILLE, S. C. and BRIGGS, K. G. Evaluation of maturity assessments in wheat and barley, 505.
SOMERVILLE, S. C. and BRIGGS, K. G. Evaluation of harvesting methods for research plots of wheat, 863.
SOSULSKI, F. W. *See* Holt, N. W., 653.
ST-PIERRE, J. C. *See* Gervais, Paul, 177.
ST-PIERRE, J. C. *See* Willemot, C., 249.
ST-PIERRE, J. C. *See* Guertin, S. P., 839.
STEPHENSON, G. R. *See* Ingratta, R. G., 469.
STEPPLER, H. A. *See* Bittman, S., 545.
STERLING, J. D. E. *See* Nass, H. G., 871.
STONE, J. R. *See* Dueck, J., 423.
SUMAYAO, C. R. and KANEMASU, E. T. Temperature and stomatal resistance of soybean leaves, 153.
SUZUKI, MICHIO and MACKENZIE, D. N. A new method for sampling overwintering plants in frozen soil, 549.
SVEJDA, FELICITAS. Buckley's quill and Snowbelle mock oranges, 879.
SVEJDA, FELICITAS. David Thompson rose, 1167.
SWITZER, C. M. *See* Ingratta, R. G., 469.

TEARE, I. D. *See* Hodges, Tom, 803.
TEWARI, J. P. and SKOROPAD, W. P. The effects of Polyoxins B and D on *Alternaria brassicae* and the blackspot of rapeseed, 1.
THEURER, J. C. Effect of DPX 3778 as a male gametocide in sugar beets, 463.
THOMPSON, D. P. Phenols, carotene and ascorbic acid of sweet potato roots infected with *Rhizopus stolonifer*, 1177.
THORPE, E. *See* Chipman, E. W., 429.
TINLINE, R. D. and LEDINGHAM, R. J. Yield losses in wheat and barley cultivars from common root rot in field tests, 313.
TKACHUK, RUSSELL and KUZINA, F. D. Wheat: Relations between some physical and chemical properties, 15.
TOIVONEN, P. M. A. and HOFSTRA, G. The interaction of copper and sulphur dioxide in plant injury, 475.
TOWNSHEND, J. L. and POTTER, J. W. Inhibiting infection of alfalfa seedlings by *Pratylenchus penetrans* by treating seed with oxamyl, 519.
TSUJITA, M. J. *See* Armitage, A. M., 343.
TSUJITA, M. J. *See* Murr, D. P., 1169.
TSUJITA, M. J., MURR, D. P. and JOHNSON, GAIL. Leaf senescence of Easter lily as influenced by root/shoot growth, phosphorus nutrition and ancymidol, 757.
TURKINGTON, ROY and CAVERS, PAUL B. The biology of Canadian weeds. 33. *Medicago lupulina* L., 99.
TZEAN, S. S. and ESTEY, R. H. Transmission electron microscopy of fungal nematode-trapping devices, 785.

VAARTAJA, O., PITBLADO, R. E., BUZZELL, R. I. and CRAWFORD, L. G. Chemical and biological control of phytophthora root and stalk rot of soybean, 307.
VANDEN BORN, W. H. *See* Qureshi, F. A., 87, 93.
van RYSWYK, A. L. *See* Broersma, K., 541.
VARSHNEY, S. P. and SHARMA, BINA DEVI. Responses of saline and non-saline populations of *Eclipta alba* to soil salinity, 539.
VENKATARAYAPPA, T. *See* Murr, D. P., 1169.
VERA, C. L., WOODS, D. L. and DOWNEY, R. K. Inheritance of seed coat color in *Brassica juncea*, 635.
VIETOR, D. M. *See* Gardiner, T. R., 191.
VINCENTINI-MISSONI, MATILDE. *See* Cerdonio, Massimo, 883.
VIOLIC, A. D. *See* Muchena, S. C., 143.

WALLACE, H. A. H. *See* Mills, J. T., 645.
WALLACE, H. A. H. *See* Sinha, R. N., 911, 949.
WALLACE, H. A. H., SINHA, R. N., LALIBERTE, G. E., FRASER, B. M., SHOLBERG, P. L. and MUIR, W. E. Biological, physical and chemical changes in stored fababeans, 991.
WARDER, F. G. *See* Lawrence, T., 691.
WARR, HAROLD J., SAVORY, DIANE R. and BAL, ARYA K. Germination studies of bakeapple (cloudberry) seeds, 69.
WARWICK, S. I. The biology of Canadian weeds. 37. *Poa annua* L., 1053.
WARWICK, S. I., MACHADO, V. SOUZA, MARRIAGE, P. B. and BANDEEN, J. D. Resistance of *Chenopodium strictum* Roth (late-flowering goosefoot) to atrazine, 269.
WEBSTER, D. H. and FORSYTH, F. R. Partial control of bitter pit in Northern Spy apples with a post-harvest dip in calcium chloride solution, 717.
WEBSTER, G. R. *See* Damirgi, Salih M., 1153.
WESENBERG, D. M. *See* McGuire, Charles F., 831.
WHITE, F. H., PANDEYA, R. S. and DIRKS, V. A. Correlation studies among and between agronomic, chemical, physical and smoke characteristics in flue-cured tobacco (*Nicotiana tabacum*), 111.

WHITE, N. D. G. *See* Sinha, R. N., 911.
WILCOX, J. C. Some effects of use of transparent shields over small evaporimeters, 445.
WILE, I. *See* Aiken, S. G., 201.
WILLEMOT, C., HOPE, H. J. and ST-PIERRE, J. C. On the inhibition of frost hardening of winter wheat by BASF 13-338, a derivative of pyridazinone, 249.
WILLEMOT, C. and PELLETIER, L. Effect of drought on frost resistance and fatty acid content of young winter wheat plants, 639.
WILSON, D. B. *See* Freyman, S., 81.
WOLFE, R. I. and LARTER, E. N. An investigation to determine the chromosome carrying the gene *Un6* of barley, 861.
WOODS, D. L. *See* Vera, C. L., 635.

YARBOROUGH, DAVID E. and ISMAIL, AMR A. Effect of endothall and glyphosate on a native barrenberry and lowbush blueberry stand, 737.
YUSUF, M. *See* Singh, S. D., 437.

ZILLMAN, R. R. and BUSHUK, W. Wheat cultivar identification by gliadin electrophoregrams. II. Effects of environmental and experimental factors on the gliadin electrophoregram, 281.
ZILLMAN, R. R. and BUSHUK, W. Wheat cultivar identification by gliadin electrophoregrams. III. Catalogue of electrophoregram formulas of Canadian wheat cultivars, 287.
ZIMMER, R. C. *See* Ali-Khan, S. T., 171.